



**APPENDIX A**

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**Clean Copy of Amended Claims**

51. (Amended) A method according to claim 72, wherein the reaction values are measurements of an optical signal or a digital image intensity value.
52. (Amended) A method according to claim 74, wherein the reaction values are measurements of an optical signal or a digital image intensity value.
56. (Amended) A method according to claim 72, wherein the reaction values are obtained by assaying for alleles using a method selected from the group consisting of genetic bit analysis, hybridization, allele-specific amplification and a ligase chain reaction.
58. (Amended) A method according to claim 74, wherein the reaction values are obtained by assaying for alleles using a method selected from the group consisting of genetic bit analysis, hybridization, allele-specific amplification and a ligase chain reaction.
60. (Amended) A method according to claim 72, further comprising detecting the presence of a downward trend in confidence scores over time.
62. (Amended) A method according to claim 72, wherein the reaction values are obtained by assaying for one or more alleles that provide information relating to a trait.
63. (Amended) A method according to claim 74, wherein the reaction values are obtained by assaying for one or more alleles that provide information relating to a trait.

64. (Amended) A method according to claim 72, wherein one or more of the reaction values are obtained by assaying for one or more alleles that provide information pertaining to parentage of the subject.

65. (Amended) A method according to claim 74, wherein one or more of the reaction values are obtained by assaying for one or more alleles that provide information pertaining to parentage of the subject.

66. (Amended) A method according to claim 72, wherein more than one genetic loci are analyzed.

67. (Amended) A method according to claim 72, wherein the reaction values are obtained by assaying for one or more alleles that provide information useful for determining the identity of the subject.

68. (Amended) A method according to claim 74, wherein the reaction values are obtained by assaying for one or more alleles that provide information useful for determining the identity of the subject.